

## CONCORD PUBLIC WORKS

### ENGINEERING DIVISION

133 KEYES ROAD  
CONCORD, MASSACHUSETTS 01742-1601

JAMES SHURIS, P.E.  
TOWN ENGINEER

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September 20, 2006

United States Environmental Protection Agency  
Water Technical Unit  
P.O. Box 8127  
Boston, MA 02114

SEP 26 2006

RE: EPA NPDES Permit Number MA041187

To whom it may concern:

Please find enclosed the Town of Concord's NPDES Phase II annual report for 2005 to 2006. If you have any questions regarding this report, please do not hesitate to contact me at (978) 318-3210, or by email at [sdivoll@concordnet.org](mailto:sdivoll@concordnet.org).

Very truly yours,

Sean Divoll, P.E.  
Public Works Engineer

Enclosures

cc: Alan H. Cathcart, Acting Director of Public Works  
James Shuris, PE, Town Engineer  
File

**Municipality/Organization:** Town of Concord, MA

**EPA NPDES Permit Number:** MA041187

**MaDEP Transmittal Number:** W-035280

**Annual Report Number  
& Reporting Period:** No. 3: March 05-March 06

## **NPDES PII Small MS4 General Permit Annual Report**

### **Part I. General Information**

**Contact Person:** Sean Divoll, P.E.

**Title:** Public Works Engineer

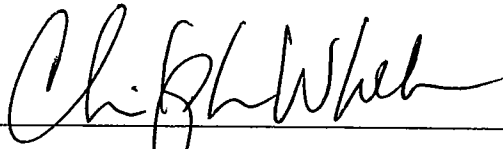
**Telephone #:** (978) 318-3210

**Email:** sdivoll@concordnet.org

#### **Certification:**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Signature:**



**Printed Name:** Christopher Whelan

**Title:** Town Manager

**Date:**

9/19/06

## **Part II. Self-Assessment**

The Town of Concord, Massachusetts, has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for the following provisions:

Part II.F      Annual report provided after May 1, 2006.

### Part III. Summary of Minimum Control Measures

#### 1. Public Education and Outreach

| BMP ID # | BMP Description  | Responsible Dept./Person Name | Measurable Goal(s)  | Progress on Goal(s) – Permit Year 3<br>(Reliance on non-municipal partners indicated, if any)  | Planned Activities – Permit Year 4   |
|----------|--|-------------------------------|---|--|--|
| 1        | Stormwater information page on Town of Concord website.  | Concord Public Works (CPW)    | Creation of website in Winter 2005-2006.  | Website content mapped out. Design, programming, and activation of website delayed due to Town's decision to update the entire Town's website. | Complete design, programming of website and activate it in Winter 2006-2007. |
| Revised  |  |                               | Creation of website in Winter 2006-2007   |  |  |
| 2        | Provide annual stormwater informational bill inserts.  | CPW                           | Annual bill inserts to Water and Sewer customers, to be mailed in Winter '05-'06.                   | No Progress.   | Develop inserts, and distribute in Winter '06-'07.                           |
| Revised  |  |                               | Annual bill inserts to be mailed in Winter '06-'07.   |  |  |
| 3        | Drop-off/Swap-off recycling days.  | CPW                           | Hold twice a year, every year.  | Held in Spring and Fall, 2005.   | Hold in Spring and Fall, 2006  |
| 4        | Provide stormwater information to businesses.  | CPW                           | Provide to businesses in conjunction with annual recycling information.                             | No Progress.   | Develop and distribute in Winter '06-'07.                                    |
| Revised  |  |                               | Provide to businesses in conjunction with annual recycling information beginning in Winter '06-'07. |  |  |
| 5        | Provide informational brochures on recycling, household hazardous materials, composting, and water conservation. | CPW                           | Maintain at Town House, CPW Administration, and Department of Planning and Land Management (DPLM)   | Always available.  | Continue to display and make available.                                      |

|   |   |                                    |  |                    |  |
|---|---|------------------------------------|--|--------------------|--|
| 6 | Hold "Conservation Coffees", informational and idea exchange sessions regarding maintenance of environmental quality. | Natural Resources Commission (NRC) | Hold Monthly                           | Held Monthly       | Continue to hold monthly.                |
| 7 | Provide informational brochures on open spaces and water ways.  | NRC                                | Maintain at Town House and NRC office. | Always maintained. | Continue to maintain and make available. |
| 8 | Maintain affiliations with various public conservation groups   | NRC                                | Maintain affiliations.                 | Always maintained. | Continue to maintain.                    |

### 1a. Additions

|    |  |     |  |  |   |
|----|--|-----|--|--|---|
| 9  | Provide stormwater education to Concord Public Schools             | CPW | Provide information in classroom to each Fourth Grade class each year. | Educational material developed and discussed in classroom    | Continue to provide information to each Fourth Grade class.   |
| 10 | Provide stormwater information to annual "Healthy Lawns" workshop. | CPW | Provide information to workshop participants                           | Educational material developed and discussed during workshop | Continue to provide information to the workshop participants. |

### 2. Public Involvement and Participation

| BMP ID #        | BMP Description  | Responsible Dept./Person Name | Measurable Goal(s)                       | Progress on Goal(s) – Permit Year 3<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4 |
|-----------------|--|-------------------------------|--|---|------------------------------------|
| 11<br>(Revised) | Provide logistical support to river, etc. clean-up days. | CPW/NRC                       | Provide support once a year, on average. | Provided support to Green Team clean up day.  | Continue to provide support.       |

|                 |  |     |  |   |   |
|-----------------|--|-----|--|---|---|
| 12<br>(Revised) | Tag catch basins draining to Mill Brook. | NRC | Tag 100% of known catch basins to Mill Brook by end of year 1. | Monitoring, mapping, and tagging of basins continued by the Mill Brook Task Force of the NRC. | Continue the monitoring, mapping and tagging. |
| Revised         |  |     | Tag all known catch basins as they are discovered.             |   |   |

## 2a. Additions

None

## 3. Illicit Discharge Detection and Elimination

| BMP ID #        | BMP Description  | Responsible Dept./Person Name | Measurable Goal(s)                               | Progress on Goal(s) – Permit Year 3<br>(Reliance on non-municipal partners indicated, if any)                                   | Planned Activities – Permit Year 4   |
|-----------------|--|-------------------------------|--|---|--|
| 13<br>(Revised) | Create GIS based Drainage Map of entire Town.              | CPW                           | Create by year 2, maintain and update as needed. | All work on drainage system has been documented.  | The GIS inventory will be updated using the documentation provided by CPW work crews working with the Stormwater/Drainage Program Manager. |
| 14<br>(Revised) | Town of Concord Public Storm Drainage Connection Policy    | CPW                           | In place; Enforce at all times.                  | Continued to enforce policy.  | Enforcement to continue.   |
| 15<br>(Revised) | Develop system to locate priority areas of illicit conn.'s | CPW                           | System in place by end of year 3.                | No Progress.  | Discuss, plan, and implement simultaneously with BMP #13 and BMP #14.  |
| Revised         |  |                               | System in place by end of year 4.                |   |  |
| 16<br>(Revised) | Develop procedure for tracing source of illicit conn.'s    | CPW                           | System in place by end of year 3.                | Results of smoke and dye testing performed in commercial areas of downtown Concord did not show any drainage cross connections. | None, dependent upon completion of BMP #13 and BMP #14.  |

|                 |  |     |                                     |  |   |
|-----------------|--|-----|-------------------------------------|--|---|
| 17<br>(Revised) | Develop procedure for removing source of illicit/illegal discharges. | CPW | System in place by end of year 4.   | No Progress  | None, dependent upon completion of BMP #13 and BMP #14.         |
| 18<br>(Revised) | Develop procedure for evaluating the progress of the programs.       | CPW | System in place by end of year 4.   | No Progress  | None, dependent upon completion of BMP #13 and BMP #14.         |
| 19<br>(Revised) | Implement BMPs 15-18. (Revised)                                      | CPW | Begin implementation by Fall 2005.  | No Progress  | Must begin with BMP #13 and BMP #14                             |
| Revised         |  |     | Begin implementation by Fall 2006.  |  |   |
| 20<br>(Revised) | Develop Wastewater Master Plan.                                      | CPW | Complete creation by end of year 1. | Construction of Phase I continued in East Concord (Elm Brook.) | Complete construction in East Concord (Elm Brook.) Update CWMP. |

### 3a. Additions

None.

### 4. Construction Site Stormwater Runoff Control

| BMP ID #        | BMP Description   | Responsible Dept./Person Name | Measurable Goal(s)                                     | Progress on Goal(s) – Permit Year 3<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4   |
|-----------------|---|-------------------------------|--|---|--|
| 21<br>(Revised) | All projects required to file MA DEP Stormwater Mgmt. form. | NRC                           | 100% Compliance for all work within Wetland Districts. | All regulated work complies with this practice.   | Continue, with no changes.   |
| 22<br>(Revised) | Sediment and Erosion Control by-law for all construction.   | Planning Division (PD)        | Ordinance approved and in force by end of Year 3.      | Outline and schedule for implementation has been accomplished                                 | Begin work on bylaw for all construction after approval of changes to the Subdivision Rules and Regulations. |
| Revised         |   |                               | Ordinance approved and in force by end of Year 4.      |   |  |

|                 |  |                         |  |  |   |
|-----------------|--|-------------------------|--|--|---|
| 23<br>(Revised) | Site plan reviews by Town staff.   | PD, NRC, CPW            | All site plans reviewed for water quality concerns.  | All regulated site plans reviewed.   | Continue to review regulated site plans.  |
| 24<br>(Revised) | Public input on all proposed projects subject to local regulations.  | PD, NRC                 | Planning Board, Board of Appeals, & NRC allow public comment on regulated projects.          | On going at all times.   | Continue at all times.  |
| 25<br>(Revised) | Site inspection of construction projects for proper erosion control.   | Building Inspector (BI) | 100% of construction sites receive a periodic visit upon the enactment of BMP #22. (Revised) | No progress due to the proposed Stormwater and Erosion Control changes not yet going before the Planning Board for approval. | Provide erosion control inspection by the Engineering Division. Develop a process for ensuring each construction site is visited. |
| 26<br>(Revised) | All work within the public right of way (ROW) is inspected to prevent erosion and sedimentation from washing in to the public way. | CPW                     | Minimize erosion and sedimentation from construction sites onto the public way.              | All known construction sites that disturb ROW are permitted and inspected through the ROW program.                           | Continue permitting and inspecting relevant construction sites.   |
| 27<br>(Revised) | Storm water pollution prevention training provided to Town's inspectors of construction sites.                                     | CPW/BI/NRC              | Pertinent employees receive storm water training upon completion of BMP #22. (Revised)       | No Progress due not yet receiving approval of BMP #22 by the Planning Board.   | Begin development of training program. Begin implementation upon completion of Erosion Control By-Law passage (BMP #22).          |

#### 4a. Additions

None.



## 5. Post-Construction Stormwater Management in New Development and Redevelopment

| BMP ID #        | BMP Description   | Responsible Dept./Person Name | Measurable Goal(s)  | Progress on Goal(s) – Permit Year 3<br>(Reliance on non-municipal partners indicated, if any)  | Planned Activities – Permit Year 4   |
|-----------------|---|-------------------------------|---|--|--|
| 28<br>(Revised) | MADEP Stormwater Standards 2,3,4 and 7.   | NRC                           | 100% Compliance for all work within wetlands jurisdiction.  | All regulated projects comply with this standard.  | Continue with compliance with all regulated projects.  |
| 29<br>(Revised) | Pre-construction review of regulated developments.  | NRC/PD/CPW                    | 100% of proposed regulated projects reviewed.   | All regulated projects were reviewed.  | Continue reviewing all regulated projects.   |
| 30<br>(Revised) | Massachusetts Wetland Protection Act.   | NRC                           | 100% of projects within wetland jurisdiction areas reviewed and permitted under the Act.                                    | All regulated projects were reviewed and permitted as necessary.   | Continue reviewing and permitting all regulated projects.  |
| 31<br>(Revised) | Inspection of regulated subdivisions.   | NRC/CPW                       | 100% of regulated subdivisions inspected to ensure proper construction of environmental protections and drainage utilities. | All regulated projects were inspected.   | Continue to inspect all regulated projects.  |
| 32<br>(Revised) | Recommended list of BMPs to be used in new construction to be developed and provided to potential developers. | NRC/PD/CPW                    | By end of year 3, a list has been developed as guidance.  | EPA poster "Stormwater and the Construction Industry" is posted prominently in the CPW Engineering Office. Poster shows the proper use and placement of BMP's on construction sites. | Stormwater Committee has decided to not provide a list of preferred BMP's. The Town shall provide a list of reference documents for all efficient and accepted BMP's |
| Revised         |   |                               | Provide a list of reference documents for all efficient and accepted BMP's  |  |  |

|                 |  |        |  |   |   |
|-----------------|--|--------|--|---|---|
| 33<br>(Revised) | Subdivision Rules & Regulations; Storm Drainage Requirements | PD/CPW | Completed, evaluate yearly for effectiveness | Progress made on updating Stormwater and Erosion Control performance criteria in the Subdivision Rules and Regulations. | Storm Drainage/Erosion Control Changes will be approved by the Planning Board in September, 2006. |
|-----------------|--|--------|--|---|---|

### 5a. Additions

None.

### 6. Pollution Prevention and Good Housekeeping in Municipal Operations

| BMP ID #        | BMP Description  | Responsible Dept./Person Name | Measurable Goal(s)                                       | Progress on Goal(s) – Permit Year 3<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4  |
|-----------------|--|-------------------------------|--|---|---|
| 34<br>(Revised) | Cleaning of catch basins.  | CPW                           | 25% of basins cleaned each year.                         | 50% of basins were cleaned.   | Clean at least 25% of catch basins, and more as funding allows.           |
| 35<br>(Revised) | Annual street sweeping.  | CPW                           | 100% of streets are swept of sand and sediments yearly.  | All streets were swept twice during the spring/summer.  | Continue to sweep all streets at least once each spring.                  |
| 36<br>(Revised) | Central Business District (CBD) street sweeping.                 | CPW                           | CBD swept weekly, weather permitting, April to November. | CBD sweeping performed as planned.  | Continue CBD sweeping weekly, weather permitting, from April to November. |
| 37<br>(Revised) | Sewer main and manhole cleanings go to WWTP.                     | CPW                           | All cleanings are disposed of at WWTP.                   | All cleanings disposed of properly at WWTP.   | Continue to properly dispose of cleanings.                                |
| 38<br>(Revised) | Composting facility, open to public, accepts used paint.         | CPW                           | Open to public once a week from April through November.  | Composting facility opened as planned.  | Continue opening facility as planned.                                     |
| 39<br>(Revised) | Member of Minuteman Regional Household Hazardous Waste Facility. | CPW                           | Maintain membership in this regional facility.           | Maintained membership in this regional facility.  | Continue to maintain membership.  |

|                 |  |         |   |  |   |
|-----------------|--|---------|---|--|---|
| 40<br>(Revised) | CPW drainage maintenance within the right of way controlled by Drainage Maintenance Permit, issued by the NRC.                     | NRC/CPW | Meet terms and conditions of permit.  | Continued to follow terms and conditions of the permit.  | Renew permit with NRC in the Winter of 2006-2007.   |
| 41<br>(Revised) | Storm Water Pollution Prevention Plan (SWPPP) and Integrated Contingency Plan (ICP) in place and in effect for CPW facility.       | CPW     | Maintain ICP and SWPPP, review and update as needed.  | Have complied with ICP and SWPPP.  | Evaluate and revise ICP and SWPPP as necessary.   |
| 42<br>(Revised) | CPW operation employees receive storm water, spill control and prevention, and wetlands training.                                  | CPW     | 100% of operations employees receive training.  | All new employees receive initial orientation training.  | All new employees continue to receive initial orientation. Develop and implement ongoing training program for all operations employees. |
| 43<br>(Revised) | Drainage system mapping and GIS system will be used to optimize catch basin cleaning program.                                      | CPW     | By year 5, catch basin cleaning program has been optimized.   | Edits are made to drainage map as they are needed.   | Continue to edit and update drainage map.   |
| 44<br>(Revised) | Use GIS/Drainage system inventory/mapping to identify catch basins in poor condition and then repair and/or retrofit those basins. | CPW     | Remove/Retrofit/Repair at least 5 catch basins a year, beginning in year 1.                         | 76-catch basins were retrofitted, repaired, or replaced. All new catch basins were installed with deep sumps.  | Continue to upgrade at least 5 catch basins.  |
| 45<br>(Revised) | Increase use of infiltration chambers for roadway drainage discharge.  | CPW     | Where soil and site conditions are appropriate, use infiltration chambers for stormwater discharge. | 384 L.F. of infiltrators were installed on Hayward Mill Road to infiltrate Roadway Runoff in the Assabet River Watershed. 190-L.F. of infiltrators were installed on Walden Street to eliminate an outfall in Walden Pond. | Continue to install infiltrator systems where soil conditions and funding allows.   |

#### 6a. Additions

None

#### 7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

| BMP ID #        | BMP Description  | Responsible Dept./Person Name                           | Measurable Goal(s)   | Progress on Goal(s) – Permit Year 3<br>(Reliance on non-municipal partners indicated, if any)  | Planned Activities – Permit Year 4     |
|-----------------|--|---|--|--|--|
| 46<br>(Revised) | NRC Order of Conditions, Special Condition #27, prohibits use of herbicides, pesticides, or fertilizers within all resource areas. | NRC   | In place, will enforce at all times.   | Special Condition enforced.  | Continue enforcement.                  |
| 47<br>(Revised) | Remove direct discharge of Walden Street stormwater to Walden Pond.  | CPW (in partnership with Walden Pond State Reservation) | Infiltrate all stormwater runoff from Walden Street and abandon the direct discharge to Walden Pond. | Walden Pond State Reservation removed discharge to the Town's ROW. CPW installed infiltrator chambers to infiltrate all of the stormwater collected in the street. The outfall to Walden Pond was abandoned. | Continue monitoring system efficiency. |

#### 7a. Additions

None.

#### 7b. WLA Assessment

BMP #46 was chosen as a means to attempt to limit fertilizers that may be entering Warner's Pond. Warner's Pond has a proposed TMDL due to impairments caused by Metals, Noxious Aquatic Plants and Exotic Species. There are approximately six drainage outfalls that directly discharge into Warner's Pond. It is anticipated that enforcement of this special condition of the NRC's standard Order of Condition will help to control the growth of the Noxious Aquatic Plants. CPW is determining the best course of action to eliminate the direct discharge of stormwater to Warner's Pond. A grant application to eliminate the direct discharges and promote infiltration is currently being considered.

BMP #47 was added based on the discovery that four catch basins on Walden Street, an arterial road, were interconnected and discharged jointly into a pipe which outfalled approximately 50-feet from the shore, in Walden Pond. The pipe leading to the outfall had failed, and was causing erosion of trails and the beach at Walden Pond State Reservation. Walden Pond, besides being of great historical interest, is listed as an impaired waterway for metals and organic enrichment (low DO). The parking lot for the reservation was discovered to discharge large amounts of water to Walden Street, and the Reservation added several low impact BMP's to eliminate the discharge to the ROW. The Town of Concord installed six new catch basins with deep sumps and oil/grease hoods. The Town of Concord replaced two catch basins with deep sumps and oil/grease hoods. The Town of Concord installed approximately 190 linear feet of underground infiltration chambers. The drainage improvements allowed the Town to abandon the existing stormwater outfall to Walden Pond. Approximately 875,000 gallons per year of untreated stormwater to an impaired waterway has therefore been removed (assuming an average yearly rainfall of 42-inches).

#### Part IV. Summary of Information Collected and Analyzed

None.

#### Part V. Program Outputs & Accomplishments

##### Programmatic

|  |       |  |
|--|-------|--|
| Stormwater management position created/staffed | (y/n) | Y- A Stormwater Program Manager position was created and staffed with existing personnel to deal with all Drainage issues for the Town Of Concord. |
| Annual program budget/expenditures             | (\$)  | \$155,000 for FY07.  |

##### Education, Involvement, and Training

|   |                   |     |
|---|-------------------|-----|
| Estimated number of residents reached by education program(s)           | (# or %)          | 300 |
| Stormwater management committee established                             | (y/n)             | Y   |
| Stream teams established or supported                                   | (# or y/n)        | Y   |
| Shoreline clean-up participation or quantity of shoreline miles cleaned | (y/n or mi.)      | -   |
| Drop-off/Swap-off Recycling Days in Spring and Fall '04 (2 days)        |                   |     |
| ▪ days sponsored  | (#)               | 2   |
| ▪ community participation   | # of cars per day | 812 |

|   |                            |   |
|---|----------------------------|---|
| <ul style="list-style-type: none"> <li>▪ <u>material collected in Spring and Fall '05 at Drop-Off Days, and in FY06 at CPW</u></li> <li>▪ Fluorescent bulbs (linear feet)</li> <li>▪ Fluorescent bulbs (bulbs)</li> <li>▪ Mercury (lbs.)</li> <li>▪ Mercury (5 gallon pail)</li> <li>▪ Misc. batteries and lead ballast (lbs.)</li> <li>▪ Misc. batteries and lead ballast (5 gallon pail)</li> <li>▪ Latex based paints (non-hazardous) (gallons)</li> <li>▪ Oil and alkyd based paints, polyurethane, paint thinner and stripper (hazardous) (gallons)</li> </ul> | (lbs, gal,<br>linear feet) | 18,000 l.f.<br>5,404 bulbs<br>32 lbs.<br>1 pail<br>2675 lbs.<br>- pails<br>~660 gal.<br>~515 gal. |
| School curricula implemented  | (y/n)                      | Y   |

### Legal/Regulatory

|  | In Place<br>Prior to<br>Phase II | Under<br>Review | Drafted | Adopted |
|--|----------------------------------|-----------------|---------|---------|
| Regulatory Mechanism Status (indicate with "X")    |                                  |                 |         |         |
| ▪ Illicit Discharge Detection & Elimination        | X                                |                 |         |         |
| ▪ Erosion & Sediment Control                       |                                  | X               |         |         |
| ▪ Post-Development Stormwater Management           |                                  | X               |         |         |
| Accompanying Regulation Status (indicate with "X") |                                  |                 |         |         |
| ▪ Illicit Discharge Detection & Elimination        | X                                |                 |         |         |
| ▪ Erosion & Sediment Control                       |                                  | X               |         |         |
| ▪ Post-Development Stormwater Management           |                                  | X               |         |         |

### Mapping and Illicit Discharges

|  |     |               |
|--|-----|---------------|
| Outfall mapping complete               | (%) | 100% of known |
| Estimated or actual number of outfalls | (#) | 183           |
| System-Wide mapping complete           | (%) | 100% of known |
| Mapping method(s)                      |     |               |

|                                   |                      |  |
|-----------------------------------|----------------------|--|
| ▪ Paper/Mylar                     | (%)                  |  |
| ▪ CADD                            | (%)                  |  |
| ▪ GIS                             | (%)                  | 100%   |
| Outfalls inspected/screened       | (# or %)             | 100% in Year 1.  |
| Illicit discharges identified     | (#)                  | 2  |
| Illicit connections removed       | (#)<br>(est.<br>gpd) | 2 Connections<br>Upgraded in<br>accordance with<br>Drainage<br>Connections Policy  |
| % of population on sewer          | (%)                  | 35% of parcels are<br>sewered, with the<br>completion of the<br>East Concord portion<br>of the Phase I Sewer<br>Extension. |
| % of population on septic systems | (%)                  | 65% of parcels are<br>not sewered.   |

### Construction

|   |            |      |
|---|------------|------|
| Number of construction starts (>1-acre)   | (#)        | 3    |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control | (%)        | 100% |
| Site inspections completed  | (# or %)   | 1    |
| Tickets/Stop work orders issued   | (# or %)   | -    |
| Fines collected   | (# and \$) | -    |
| Complaints/concerns received from public  | (#)        | -    |

### Post-Development Stormwater Management

|  |     |      |
|--|-----|------|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%) | 100% |
|--|-----|------|

|   |                            |         |
|---|----------------------------|---------|
| Site inspections completed  | (# or %)                   | 1       |
| Walden Pond Drainage, Hayward Mill Road Drainage: Estimated volume of stormwater recharged (based upon 42-inches of rain per year). | (Million Gallons per Year) | 2.3 MGY |

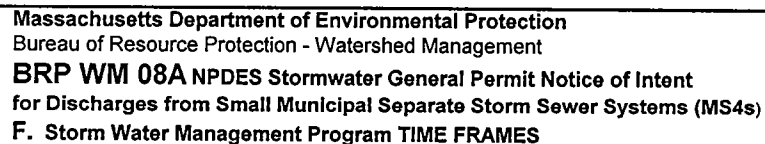
### Operations and Maintenance

|  |                |   |
|--|----------------|---|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets)                | (times/yr)     | .5/year   |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets)      | (times/yr)     | .5/year   |
| Total number of structures cleaned   | (#)            | 1300/year   |
| Storm drain cleaned  | (LF or mi.)    | 1 mi.   |
| Qty. of screenings/debris removed from storm sewer infrastructure                              | (lbs. or tons) | -   |
| Disposal or use of cleanings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) |                | landfill  |
| Cost of catch basin/drain cleaning and screenings disposal                                     | (\$)           | \$14,954  |
| Average frequency of street sweeping (non-commercial/non-arterial streets)                     | (times/yr)     | 2   |
| Average frequency of street sweeping (commercial/arterial or other critical streets)           | (times/yr)     | 2/yr, and weekly between Apr. and Nov. in business districts. |
| Qty. of sand/debris collected by sweeping  | (lbs. or tons) | 1,000   |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)                          | (location)     | Compost, roadside use.  |
| Cost of sweepings disposal   | (\$)           | -   |
| Vacuum street sweepers purchased/leased  | (#)            | 0   |
| Vacuum street sweepers specified in contracts  | (y/n)          | N   |

|  |             |         |
|--|-------------|---------|
| Reduction in application on public land of: ("N/A" = never used; "100%" = elimination) |             |         |
| ▪ Fertilizers  | (lbs. or %) | 0%      |
| ▪ Herbicides   | (lbs. or %) | Minimal |
| ▪ Pesticides   | (lbs. or %) | N/A     |



|  |                   |                            |
|--|-------------------|----------------------------|
| Anti-/De-Icing products and ratios                       | % NaCl            | 3,700 tons<br>(69%) (est.) |
|  | CaCl <sub>2</sub> | 3,000 gallons<br>(est.).   |
|  | % Sand            | 1,700 tons<br>(31%) (est.) |
|  |                   |                            |
| Pre-wetting techniques utilized                          | (y/n)             | Y                          |
| Manual control spreaders used                            | (y/n)             | N                          |
| Automatic or Zero-velocity spreaders used                | (y/n)             | Y                          |
| Estimated net reduction in typical year salt application | (lbs. or %)       | None                       |
| Salt pile(s) covered in storage shed(s)                  | (y/n)             | Y                          |
| Storage shed(s) in design or under construction          | (y/n)             | N/A                        |



Facility ID (if known)

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[illegible]